

BACKBONE CYCLIZED RADIOLABELLED SOMATOSTATIN ANALOGS

ABSTRACT

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Novel radiodiagnostic and radiotherapeutic peptides which are conformationally constrained backbone cyclized somatostatin analogs, having improved somatostatin receptor subtype affinity and selectivity are disclosed. The backbone cyclized peptide analogs disclosed possess unique and superior properties over other analogs, such as chemical and metabolic stability, selectivity, increased bioavailability and improved pharmacokinetics. Furthermore, the unique patterns of receptor subtype selectivity provide compounds having improved diagnostic and therapeutic utilities. Pharmaceutical compositions comprising the backbone cyclized somatostatin analogs and radiolabelled analogs, reagents for synthesizing same, and methods of using such compositions for radiodiagnostic and radiotherapeutic purposes are also disclosed.

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